Apple IIc: Memory Expansion Card

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Security:       Everyone
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The Apple IIc Memory Expansion Card is a dealer-installed option available
for Apple IIc computers that have a memory expansion connector. The card
requires a memory expansion connector found on the IIc logic board. Simply
exchange a logic board that does not have the connector for a board with the
connector.

The Memory Expansion Card is sold with 256K RAM and may be expanded to 512K,
768K, or 1 Megabyte of RAM. Additional memory may be added at any time by
plugging 256K RAM increments into the board's sockets.

Note that the Memory Expansion Card is static sensitive, so that proper
electrostatic discharge precautions must be taken before handling the card.

The Memory Expansion Card will be available under ProDOS as a RAM disk, with
the name /RAM4. Some software, such as AppleWorks 2.0, will use the extra
RAM within the program.

To test the Memory Expansion Card, power on the Apple IIc and follow these
steps:

  1. Simultaneously press CTRL and RESET
  2. Type CALL -151(CR)
  3. Type C40AG(CR)

The Apple IIc responds with a message that indicates the RAM size found (256,
512, 768K, or 1M) and then tests the card until an error or until you press
ESC.

The Memory Expansion Card test on an Apple IIc will give results whether or
not a card is actually installed. You must make sure that a card is properly
installed before getting valid results from the test.

When you run the diagnostics and there is no card, you should see:

MEMORY CARD TEST
ESC TO EXIT
TEST WILL TAKE 180 SECONDS
CARD SIZE = 1 MEG

PASSES = 0000

CARD FAILED
ADDRESS ERROR
SEE DEALER FOR SERVICE

8002-   M=00 A=04 X=C1 Y=A0 P=B0 S=CE

(M is the memory bank where failure occurred)

If this is the message you are getting, then you may not have a RAM card
(or it may not have RAM in it).

There is no other way of determining how much memory the Apple IIc has
without writing a machine language program.

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